2810-
011753-P00-2015-02- Gawronski
Updated

USDA, Forest Service

PLAN OF OPERATIONS FOR MINING ACTIVITIES ON NATIONAL FOREST SYSTEM LANDS

FS-2800-5 (Rev. 12/11)
OMB NO. 0596-0022

USE OF THIS FORM IS OPTIONAL! 1st TIME USERS SHOULD DIRECT QUESTIONS REGARDING THIS FORM OR REGULATIONS (36 CFR 228A) TO THE FOREST SERVICE DISTRICT OFFICE NEAREST YOUR AREA OF INTEREST.

Submitted by: [redacted]	Signature	Owner	6-5-15
	Signature	Title	Date (mm/dd/yy)
	Signature	Title	Date (mm/dd/yy)
Plan Received by: [redacted]	Signature	Geologist	6/22/15
		Title	Date (mm/dd/yy)

I. GENERAL INFORMATION

A. **Name of Mine/Project:** Nugget Buster

B. **Type of Operation:** Placer Small Scale Recreational Suction Dredging and Hand Tools
(lode, placer, mill, exploration, development, production, other)

C. Is this a (☒new/☐continuing) operation? *(check one).*
If continuing a previous operation, this plan (☐replaces/☐modifies/☐supplements) a previous plan of operations. *(check one)*

D. **Proposed start-up date *(mm/dd/yy)* of operation:** July 1 2015

E. **Expected total duration of this operation:** 5 Years (for duration Of NPDES General permit)

F. If seasonal, expected date *(mm/dd/yy)* of annual reclamation/stabilization close out: Sept 20 2015

G Expected date *(mm/dd/yy)* for completion of all required reclamation: ~~Sept 20 2020~~ Apr. 30, 2018

II. PRINCIPALS

A. Name, address and phone number of operator:
James Gawronski [redacted]

B. Name, address, and phone number of authorized field representative (if other than the operator). Attach authorization to act on behalf of operator.

C. Name, address and phone number of owners of the claims (if different than the operator):

(If more space is needed to fill out a block of information, use additional sheets and attach form)

D. Name, address and phone number of any other lessees, assigns, agents, etc., and briefly describe their involvement with the operation, if applicable:

Calvin Gawronski Box 282 Alberton Mt 59820 406.552.8040 / son. Kevin Kelley Seeley Lake Mt 406.210.5448 friend.

III. PROPERTY OR AREA

(Name of claim, if applicable, and the legal land description where the operation will be located.)

MC#	*Name*	*Section*	*Township*	*Range*
182101	Nugget Buster	3,4,9	T39N	R11E

IV. DESCRIPTION OF THE OPERATION

A. **Access.** *Show on a map (USGS quadrangle map or a National Forest map, for example) the claim boundaries, if applicable, and all access needs such as roads and trails, on and off the claim. Specify which Forest Service roads will be used, where maintenance or reconstruction is proposed, and where new construction is necessary. For new construction, include construction specifications such as widths, grades, etc., location and size of culverts, describe maintenance plans, and the type and size of vehicles and equipment that will use the access routes.*

Access to claim via rd 250, then on primary FS rd 255 to claim. No additional roads or improvements will need to be made.

B. **Map, Sketch or Drawing.** *Show location and layout of the area of operation. Identify any streams, creeks or springs if known. Show the size and kind of all surface disturbances such as trenches, pits, settling ponds, stream channels and run-off diversions, waste dumps, drill pads, timber disposal or clearance, etc. Include sizes, capacities, acreage, amounts, locations, materials involved, etc.*

Attached 3 maps show location of claim and approx locations of dredging areas, and camp site.

(If more space is needed to fill out a block of information, use additional sheets and attach form)

C. **Project Description.** *Describe all aspects of the operation including mining, milling, and exploration methods, materials, equipment, workforce, construction and operation schedule, power requirements, how clearing will be accomplished, topsoil stockpile, waste rock placement, tailings disposal, proposed number of drillholes and depth, depth of proposed suction dredging, and how gravels will be replaced, etc. Calculate production rates of ore. Include justification and calculations for settling pond capacities, and the size of runoff diversion channels.*

This operation will consist of the use of hand tools, and 2 dredges, one 5" less than 15 hp operated by 2 people, and sometimes, one 4"less than 15 hp operated by 2 people.

If both dredges are working, they will be at least 800 feet apart. They will have a pump intake mesh screen with 3/32 holes.

Dredging will be daylight hours only, approx 5 hours, per day, and to prevent undercutting and destabilizing of bank, they will only be on the wetted perimeter below the high water line, and will cease during wet periods to prevent bank erosion.

No damming or changing of stream channel.

Dredges will go to bedrock, approx 2- 8 feet below the stream bank. Approx 10 cubic yards of material will be processed per day.

Dredges and associated tools will be cleaned with a pressure washer and dried for at least 5 days prior to use on the National Forest in order to prevent the spread of aquatic invasive species.

D. **Equipment and Vehicles.** *Describe that which is proposed for use in your operation (Examples: drill, dozer, wash plant, mill, etc.). Include: sizes, capacity, frequency of use, etc.*

1 truck used to hold hand tools, buckets etc. and dredges. truck will be used to travel from campsite daily approx 1/4 mile away.

E. **Structures.** *Include information about fixed or portable structures or facilities planned for the operation. Show locations on the map. Include such things as living quarters, storage sheds, mill buildings, thickener tanks, fuel storage, powder magazines, pipelines, water diversions, trailers, sanitation facilities including sewage disposal, etc. Include engineering design and geotechnical information for project facilities, justification and calculations for sizing of tanks, pipelines and water diversions, etc.*

No fixed structures. We are not camping onsite, we are approx 1/4 mile away, and using an available outhouse.

I am camping for 3 – 4 days at a time and removing all equipment when I leave the site.

I plan to be on the claim dredging for a total of 15 days.

V. ENVIRONMENTAL PROTECTION MEASURES (SEE 36 CFR 228.8)

A. **Air Quality.** *Describe measures proposed to minimize impacts on air quality such as obtaining a burning permit for slash disposal or dust abatement on roads.*

(If more space is needed to fill out a block of information, use additional sheets and attach form)

Excessive travel, and speed on dusty roads will be avoided.

B. **Water Quality.** *State how applicable state and federal water quality standards will be met. Describe measures or management practices to be used to minimize water quality impacts and meet applicable standards.*

1. *State whether water is to be used in the operation, and describe the quantity, source, methods and design of diversions, storage, use, disposal, and treatment facilities. Include assumptions for sizing water conveyance or storage facilities.*
2. *Describe methods to control erosion and surface water runoff from all disturbed areas, including waste and tailings dumps.*
3. *Describe proposed surface water and groundwater quality monitoring, if required, to demonstrate compliance with federal or state water quality standards.*
4. *Describe the measures to be used to minimize potential water quality impacts during seasonal closures, or for a temporary cessation of operations.*
5. *If land application is proposed for waste water disposal, the location and operation of the land application system must be described. Also describe how vegetation, soil, and surface and groundwater quality will be protected if land application is used.*

Mining operations will be conducted in stream, we will have NPDES permit and IDWR permit.

Stream will be monitored for turbidity 150 feet downstream if noticable turbidity is observed - operations will be shut down or turned down until no increased turbidity is observed. If both dredges are being used a minimum space of 800 feet between dredges will be observed.

C. **Solid Wastes.** *Describe the quantity and the physical and chemical characteristics of solid waste produced by the operation. Describe how the wastes will be disposed of including location and design of facilities, or treated so as to minimize adverse impacts.*

We will make use of a nearby outhouse. Tailing will remain in active channel and will not be placed on the banks.

D. **Scenic Values.** *Describe protection of scenic values such as screening, slash disposal, or timely reclamation.*

Any required reclamation will be completed in a timely fashion to reduce negative scenic impacts.Dredging sites will be kept neat and free of trash, and revegatated or otherwise restored if needed.

(If more space is needed to fill out a block of information, use additional sheets and attach form)

E. **Fish and Wildlife.** *Describe measures to maintain and protect fisheries and wildlife, and their habitat (includes threatened, endangered, and sensitive species) affected by the operations.*

We will be meeting with FS fisheries biologist Dan Kenney on our agreed time and date.

If any sick, dead, or injured speciman of a threatened and endangered species is found, the dredging operation will shut down immediately and the Vancouver Field Office of NOAA Law Enforcement will be notified for steelhead trout, or the USFWS Division of Law Enforcement will be notified for bull trout. Proper handling of the speciman will be observed, according to USFS SEIS 2004.

F. **Cultural Resources.** *Describe measures for protecting known historic and archeological values, or new sites in the project area.*

If cultural resources are found - dredging will stop and we will alert FS archaeologist.

G. **Hazardous Substances.**

1. *Identify the type and volume of all hazardous materials and toxic substances which will be used or generated in the operations including cyanide, solvents, petroleum products, mill, process and laboratory reagents.*

Gas for dredges will be kept in one gallon cans, in the truck, off the claim, as will the 3 quarts of oil, if needed a minimum amount will be brought onto the claim and used , a spill kit will be right there too.

2. *For each material or substance, describe the methods, volume, and frequency of transport (include type of containers and vehicles), procedures for use of materials or substances, methods, volume, and containers for disposal of materials and substances, security (fencing), identification (signing/labeling), or other special operations requirements necessary to conduct the proposed operations.*

Gas for dredges will be stored in one gallon plastic containers in truck, off claim, , if needed a minimum amount will be brought onto the claim and used , a spill kit will be right there too.

All equipment will be checked for leaks several times daily.

3. *Describe the measures to be taken for release of a reportable quantity of a hazardous material or the release of a toxic substance. This includes plans for spill prevention, containment, notification, and cleanup.*

If any mercury is found- we will alert FS right away.

(If more space is needed to fill out a block of information, use additional sheets and attach form)

H. Reclamation. *Describe the annual and final reclamation standards based on the anticipated schedule for construction, operations, and project closure. Include such items as the removal of structures and facilities including bridges and culverts, a revegetation plan, permanent containment of mine tailings, waste, or sludges which pose a threat of a release into the environment, closing ponds and eliminating standing water, a final surface shaping plan, and post operations monitoring and maintenance plans.*

With the exception of the game trails that already exist, any other disturbed sites that are associated dredge operations, will be re-vegatated or otherwise be restored to original conditions at the end of operations.
Shallow areas and natural pools will not be filled, tailings will be naturally redistributed to avoid creating unstable spawning gravels. All dredge piles will be dispersed and dredge holes will be filled before the end of the operation.

VI. FOREST SERVICE EVALUATION OF PLAN OF OPERATIONS

A. **Required changes/modifications/special mitigation for plan of operations:**
Gawronski has read and agrees to the Operating Conditions and Mitigation Measures attached.

B. Bond. Reclamation of all disturbances connected with this plan of operations is covered by Reclamation Performance Bond No. _____, dated (mm/dd/yy) 7/8/15 signed by Gawronski (Principal) and N/A (Surety), for the penal sum of $750. This Reclamation Performance Bond is a guarantee of faithful performance with the terms and conditions listed below, and with the reclamation requirements agreed upon in the plan of operations. This Reclamation Performance Bond also extends to and includes any unauthorized activities conducted in connection with this operation.

The bond amount for this Reclamation Performance Bond was based on a bond calculation worksheet. The bond amount may be adjusted during the term of this proposed plan of operations in response to changes in the operations or to changes in the economy. Both the Reclamation Performance Bond and the bond calculation worksheet are attached to and made part of this plan of operations. Acceptable bond securities (subject to change) include:

1. *Negotiable Treasury bills and notes which are unconditionally guaranteed as to both principle and interest in an amount equal at their par value to the penal sum of the bond; or*
2. *Certified or cashier's check, bank draft, Post Office money order, cash, assigned certificate of deposit, assigned savings account, blanket bond, or an irrevocable letter of credit equal to the penal sum of the bond.*

(If more space is needed to fill out a block of information, use additional sheets and attach form)

VII. TERMS AND CONDITIONS

A. If a bond is required, it must be furnished before approval of the plan of operations.

B. Information provided with this plan marked confidential will be treated in accordance with the agency's laws, rules, and regulations.

C. Approval of this plan does not constitute certification of ownership to any person named herein and/or recognition of the validity of any mining claim named herein.

D. Approval of this plan does not relieve me of my responsibility to comply with other applicable state or federal laws, rules, or regulations.

E. If previously undiscovered cultural resources (historic or prehistoric objects, artifacts, or sites) are exposed as a result of operations, those operations will not proceed until notification is received from the Authorized Officer that provisions for mitigating unforeseen impacts as required by 36 CFR 228.4(e) and 36 CFR 800 have been complied with.

F. This plan of operations has been approved for a period of ____ or until (mm/dd/yy) 04/30/2018. A new or revised plan must be submitted in accordance with 36 CFR part 228, subpart A, if operations are to be continued after that time period.

VIII. OPERATING PLAN ACCEPTANCE

☒I/☐We have reviewed and agreed to comply with all conditions in this plan of operations including the required changes, modifications, special mitigation, and reclamation requirements.

☒I/☐We understand that the bond will not be released until the Authorized Officer in charge gives written approval.

[redacted] 07/08/15

Signature of ☒Operator (or ☐Authorized Representative) (Date) (mm/dd/yy)

IX. OPERATING PLAN APPROVAL

Roger Staats — Acting District Ranger

(Name) (Title)

[redacted] 7/21/15

Signature of (Authorized Officer) (Date) (mm/dd/yy)

Burden and Non-Discrimination Statement

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0022. The time required to complete this information collection is estimated to average 12 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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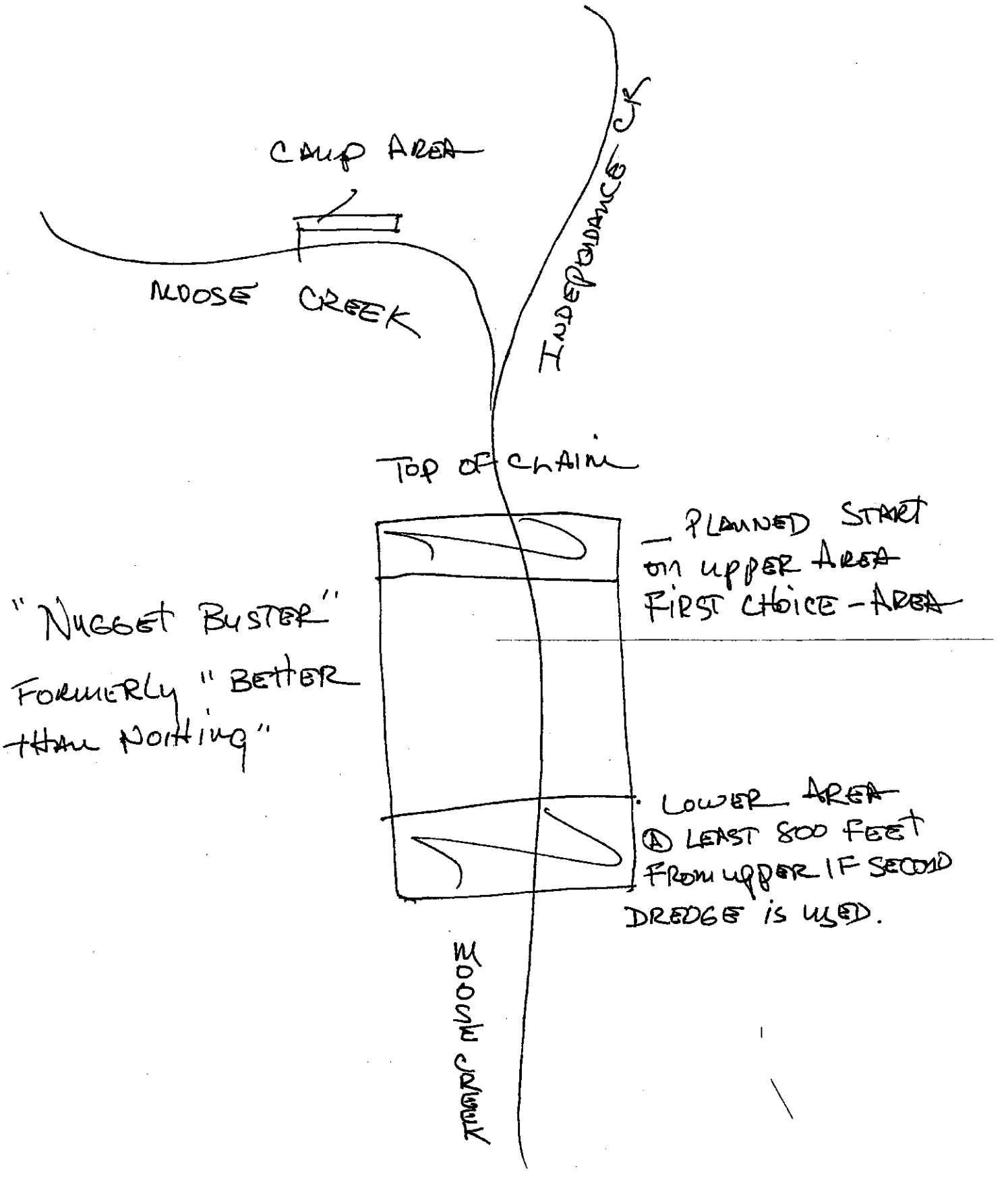
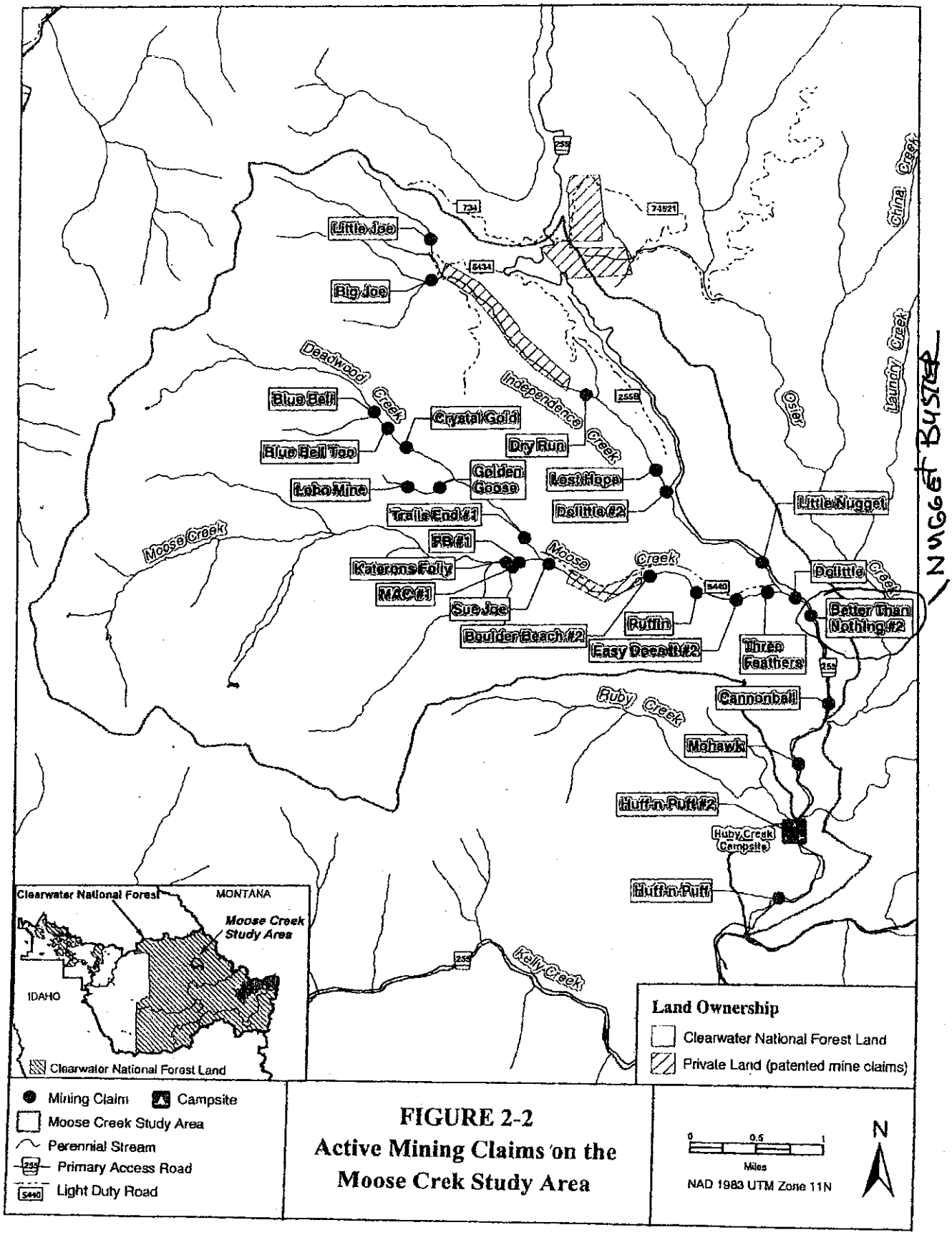
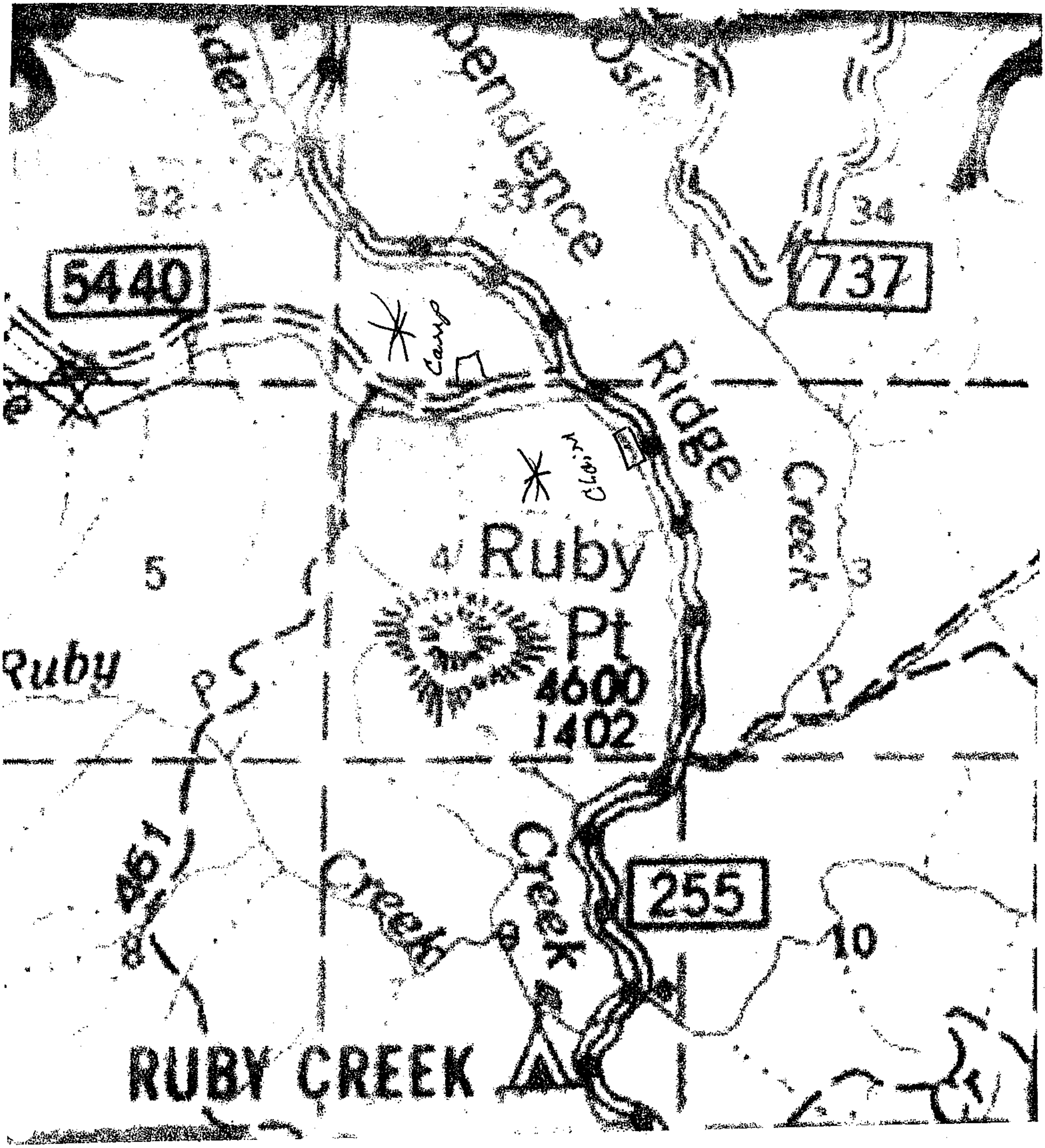
(If more space is needed to fill out a block of information, use additional sheets and attach form)


CAMP AREA
MOOSE CREEK
INDEPENDENCE CK
TOP OF CLAIM
PLANNED START ON UPPER AREA FIRST CHOICE - AREA
"NUGGET BUSTER"
FORMERLY "BETTER THAN NOTHING"
LOWER AREA @ LEAST 800 FEET FROM UPPER IF SECOND DREDGE IS USED.
MOOSE CREEK


Little Joe
Big Joe
Deadwood Creek
Blue Bell
Crystal Gold
Blue Bell Too
Dry Run
Golden Goose
Lost Hope
Lobo Mine
Trail's End #1
Dolittle #2
FB #1
Moose Creek
Katerons Folly
MAC #1
Sue Joe
Boulder Beach #2
Easy Death #2
Puffin
Three Feathers
Cannonball
Ruby Creek
Mohawk
Huff-n-Puff #2
Huby Creek Campsite
Huff-n-Puff
Kelly Creek
Independence Creek
China Creek
Lunch Creek
Osier
Little Nugget
Dolittle Creek
Better than Nothing #2
Nugget Buster
Clearwater National Forest
MONTANA
Moose Creek Study Area
IDAHO
Clearwater National Forest Land
Land Ownership
Clearwater National Forest Land
Private Land (patented mine claims)
Mining Claim
Campsite
Moose Creek Study Area
Perennial Stream
Primary Access Road
Light Duty Road
FIGURE 2-2
Active Mining Claims on the
Moose Crek Study Area
0
0.5
1
Miles
NAD 1983 UTM Zone 11N
N



32
33
34
5440
737
Camp
Claim
Ridge
Creek
Ruby
Pt
4600
1402
5
Ruby
461
Creek
Creek
255
10
RUBY CREEK

1. Operations will occur only within the wetted perimeter below the ordinary high water line during a dredge season extending from July 15 through August 15.
2. Before dredge mining begins, operators must submit a POO to the Forests that includes all of the operating conditions, design feastures, and mitigation measures, and specifies the location, approximate amount of surface area they plan to dredge, and likely dates of operation. The operating plan will be used to establish channel-monitoring sites, and is not intended to constrain the timing and location of dredge operations.
3. Prior to dredging, operators must meet with a Forest Service fisheries biologist who will inspect the proposed dredge sites. No dredging will be allowed in areas of known bull trout or steelhead spawning or in areas identified as spawning habitat. *Miners will also avoid identified Lolo Creek lamprey spawning and ammocoete rearing areas, and western pearlshell mussel beds. The areas that would be required to be avoided would generally be specific locations within the proposed dredging areas rather than extensive stream reachs.*
4. The suction dredge will have a nozzle diameter of 5 inches or less and a horsepower rating of 15 horsepower or less.
5. Pump intakes must be covered with 3/32-mesh screen *or finer*.
6. Dredge sites must be located in areas of large substrate not preferred for spawning steelhead and bull trout, and operators are required to conduct all dredge mining 50 feet or more from identified spawning areas.
7. Dredging operations must take place during daylight hours.
8. Dredging must be conducted in a manner so as to prevent the undercutting and destabilization of stream banks, and may not otherwise disturb streambanks.
9. If streambanks are disturbed in any way, they must be restored to the original contour and re-vegetated with native species at the end of the dredging season.
10. Camping areas, paths, and other disturbed sites that are located along stream banks and that are associated with dredge operations must be re-vegetated or otherwise restored to their original conditions at the end of the dredge season.
11. Operators must cease activities during wet periods when project activities are causing excessive ground disturbance (visible ground disturbance due to soil saturation) or excessive damage (muddying/rutting) to roads.
12. Dredges must not operate in such a way that the current or the discharge from the sluice is directed into the bank in a way that causes erosion or destruction of the natural form of the channel, that undercuts the bank, or that widens the channel.
13. Operators must not undermine, excavate, or remove any stable woody debris or boulders that extend from the bank into the channel. This will prevent destabilization of streambanks and the stream channel.
14. Operators must not remove, relocate, or disturb stable in-stream woody debris or boulders greater than 12 inches in diameter, unless it was determined during the pre-mining site review that the predominate substrate was 12 inches and retaining larger boulders would be more beneficial to that particular reach. This design feature will prevent the destabilization of the stream channel and assure that potential fish habitat would not be disturbed.
15. The operator will not remove any large down or standing woody debris or trees for firewood within one tree length of the stream.
16. Operators will not move cobbles in the stream course to the extent that the deepest and fastest portion of the stream channel (i.e., the thalweg) is altered or moved.
17. No mechanized equipment will be operated below the mean high water mark except for the dredge itself and any life support system necessary to operate the dredge. No mechanized equipment other than the suction dredge will be used for conducting operations.
18. Dredging must not dam the stream channel.
19. Dredges must not operate in the gravel bar areas at the tails of pools.
0. Dredges must not operate in such a way that fine sediment from the dredge discharge blankets gravel bars.

21. Operators must visually monitor the stream for 150 feet downstream of the dredging operation. If noticeable turbidity is observed downstream, the operation must cease immediately or decrease in intensity until no increase in turbidity is observed 150 feet downstream.

22. Shallow areas must be restored to their original grade each day and natural pools may not be filled. Tailings must be redistributed to avoid creating unstable spawning gravels.

23. All dredge piles must be dispersed and backfill all dredge holes before moving to a new dredge location and by the end of the operating season, no later than August 15.

24. Dredging operations must shut down immediately if any sick, injured, or dead specimen of a threatened or endangered species is found. The finder must notify the Vancouver Field Office of NOAA Law Enforcement at (360) 418-4246 for steelhead trout, or USFWS Division of Law Enforcement at (208) 378-5333 for bull trout. The finder must take care in handling sick or injured specimens to ensure effective treatment, and in handling dead specimens to preserve biological material in the best possible condition. The finder must also ensure that evidence intrinsic to the specimen is not disturbed unnecessarily. In addition, if any fish eggs are excavated or if destruction of redds is observed, operators must contact the CNF and receive authorization to proceed prior to resuming operations. Operators must record the date, time, location, and possible cause of fish injury or death.

25. Operators must maintain a minimum spacing of at least 150 linear feet of stream channel between suction dredging operations.

26. Gasoline and other petroleum products must be stored in spill-proof containers at a location that minimizes the opportunity for accidental spillage.

27. The suction dredge must be checked for leaks, and all leaks repaired, prior to the start of operations each day. The fuel container used for refueling must contain less fuel than the amount needed to fill the tank. The suction dredge must be anchored to the stream bank when refueling in the water, so that fuel does not need to be carried out into the stream. Unless the dredge has a detachable fuel tank, operators may transfer no more than one gallon of fuel at a time during refilling. Operators must use a funnel while pouring, and place an absorbent material such as a towel under the fuel tank to catch any spillage from refueling operations. A spill kit must be available in case of accidental spills. Soil contaminated by spilled petroleum products, must be excavated to the depth of saturation and removed from the National Forest for proper disposal.

28. Operators will not entrain, mobilize, or disperse any mercury discovered during mining operations. Operators must cease operations and notify the Forest Service if mercury is encountered in dredged material. Operators must not use mercury, cyanide, or any other hazardous or refined substance to recover or concentrate gold.

29. All human waste must be kept more than 200 feet away from any live water. All refuse from dredging activities must be packed out and disposed of properly.

30. Operators must obtain all Idaho and Federal permits including the Environmental Protection Agency's NPDES permit, the Corps of Engineers/State of Idaho's joint 404/Permit to Alter a Stream Channel, and State 401 certification. Operators must also comply with all additional conditions or measures stipulated in the permits, and must comply with the State of Idaho's Placer Mining - Best Management Practices (IDWR 2004).

31. Heritage resource surveys were conducted in compliance with the National Historic Preservations Act, and various sites were identified in the area. If additional heritage resources are found during the implementation of the project, project activities are to cease. The Forest Archaeologist will be notified, and an assessment will be made regarding the effect of continued activities on the newly identified heritage resource.

32. To prevent the threat of aquatic invasive species, Suction dredges, tools used while dredging, and associated equipment must be thoroughly cleaned with a Pressure washer and dried at least 5 days prior to use on the National Forest.

Suction Dredging Site Delineation Sketch Form—15m Reaches

Reach #

Upstream is top of page. Number, Flag, Photo, Time, and UTM Features. Cross-hatch No-Gos.

Pull-off is 0.1 miles uphill from MM 14, no. 2 mi downhill of Tenney pull-off

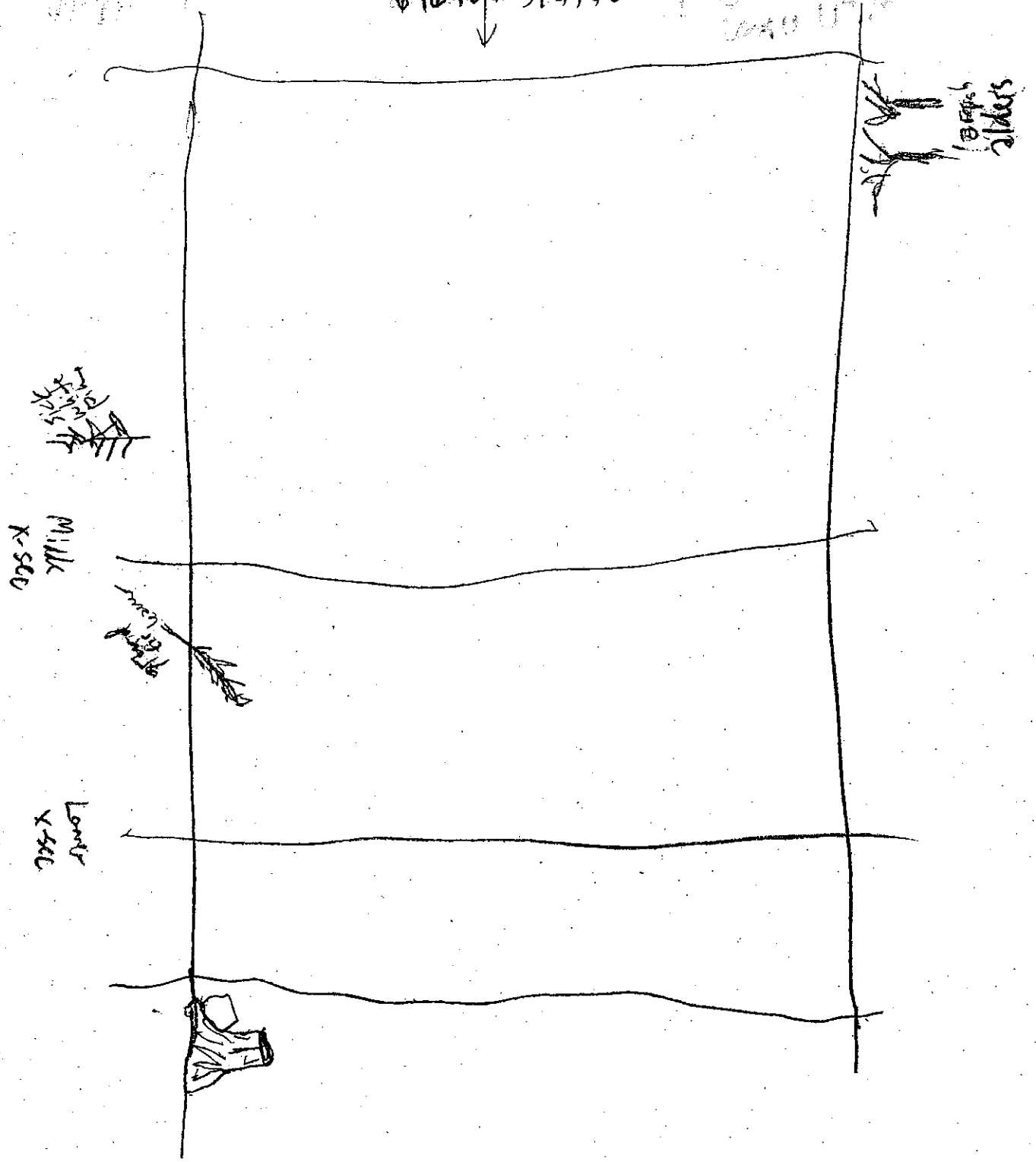
Stream: Moose Ck Mining Site Operator: Gawronski Date: 7/6/15 Time: 1425

site is ~ 200' uphill of pull-off - Flagging & chain marker

Suction Dredging Reach: Lower of Two

Upstream Boundary UTM (RBLU): 646961 5179801

Downstream Boundary UTM (RBLU): 646984 5179785



Suction Dredging Site Delineation Sketch Form – 15m Reaches **Reach #** 1

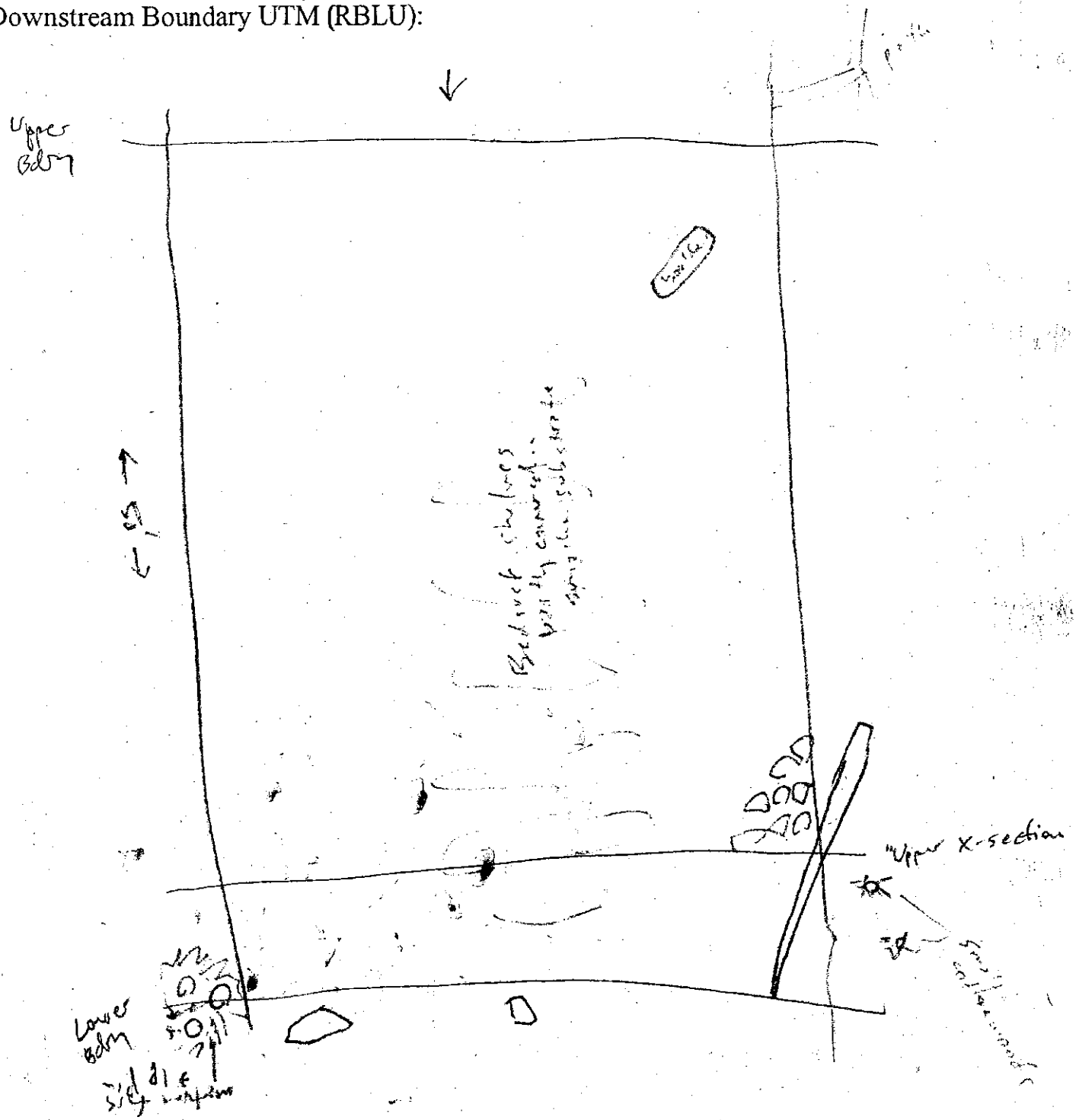
Upstream is top of page. Number, Flag, Photo, Time, and UTM Features. Cross-hatch No-Gos.

Stream: Moose Ck Mining Site Name: Gawronski Date: 7/5/16 Time: 1656

Stream Reach: ~~Section~~ New Upper 50' reach & section

Upstream Boundary UTM (~~R~~BLU): 646909 5179904

Downstream Boundary UTM (RBLU):



Suction Dredging Site Delineation Sketch Form—~~15~~ 30m Reaches

Reach # 2

Upstream is top of page. Number, Flag, Photo, Time, and UTM Features. Cross-hatch No-Gos.

Stream: Moose Creek Mining Site Operator: Gawronski Date: 7/5/16 Time:

Suction Dredging Reach: New Lower 100' ~~reach~~ reach
Includes Middle & Lower Sections

Upstream Boundary UTM (RBLU):

Downstream Boundary UTM (RBLU):